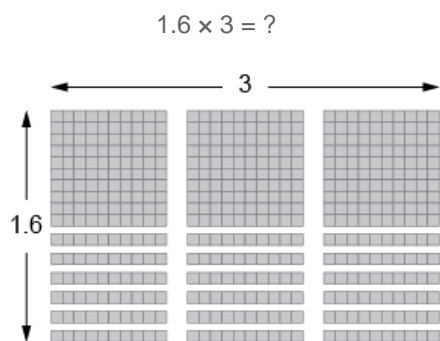


Activity 24 Assessment

Dividing Decimals by 1-Digit Numbers

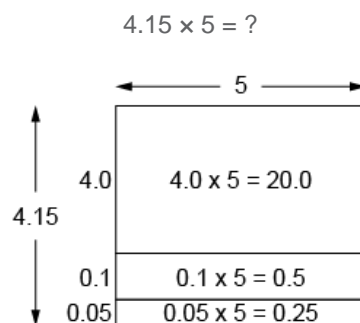
Multiplying and Dividing Decimals by 1-Digit Numbers

Models multiplication and division situations concretely and pictorially.



"I used Base Ten Blocks to make an array with length 3 and width 1.6. I then counted the blocks to get 4.8".

Uses models and strategies to solve multiplication and division situations.



"I used an area model:
 $4 \times 5 = 20$;
 1 tenth $\times 5 = 5$ tenths, or 0.5;
 5 hundredths $\times 5$
 $= 25$ hundredths, or 0.25;
 $20.0 + 0.5 + 0.25 = 20.75$."

Decomposes numbers to use distributive property and partial products to multiply.

$4.15 \times 5 = ?$

$$4.15 \times 5 = (4.0 + 0.1 + 0.05) \times 5$$

$$= 4.0 \times 5 + 0.1 \times 5 + 0.05 \times 5$$

$$= 20.0 + 0.5 + 0.25$$

$$= 20.75$$

Observations/Documentation

Activity 24 Assessment

Dividing Decimals by 1-Digit Numbers

Multiplying and Dividing Decimals by 1-Digit Numbers (cont'd)

Decomposes numbers to use partial quotients to divide.

$$21.25 \div 5 = ?$$

$5 \overline{) 2125}$	
$- 2000$	400 groups of 5
$\underline{\quad} 125$	
$- 100$	20 groups of 5
$\underline{\quad} 25$	
$- 25$	5 groups of 5
$\underline{\quad} 0$	425

"I used partial quotients to divide as whole numbers, then estimated to place the decimal point. 21.25 is about 20.

$$20 \div 5 = 4$$

So, I placed the decimal point so 425 is close to 4: 4.25."

Estimates to determine if answer to multiplication or division problem is reasonable.

$$38.22 \div 3 = 12.74$$

"I used estimation to check. 38 is close to 39 and $39 \div 3 = 13$. Since 12.74 is close to 13, my answer is reasonable."

Solves multiplication and division problems flexibly using a variety of strategies.

A bus travelled 446.5 km in 5 h, with no stops. On average, how far did the bus travel in 1 h?

"I divided as I would whole numbers, then used estimation to place the decimal point. 446.5 is about 450, and $450 \div 5 = 90$. I placed the decimal point so that 893 is close to 90: 89.3."

$$5 \overline{) 4465} \quad \begin{matrix} 893 \end{matrix}$$

Observations/Documentation